

NEWSLINE

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NAI marks 10th anniversary



DON JOHNSTON/NEWSLINE

The Nonproliferation, Arms Control and International Security (NAI) Directorate celebrated its 10th anniversary at a noontime ceremony last week in the Bldg. 132 courtyard. Speakers Bob Andrews, NAI's first associate director, George Staehle and current AD Wayne Shotts, above left, provided a historical account of the directorate's creation. Andrews, above right and inset, displayed the original memo describing the newly created directorate.



Kathleen Hardcastle, Art Wong named to head human resources departments

Two departments within the Administration and Human Resources Directorate have new managers. Associate Director Jan Tulk, has appointed Kathleen Hardcastle manager of the Compensation, Benefits and Worklife Programs Department, and Art Wong as manager of the Staffing and Employee Development Department.

Tulk made the announcements via administrative memos distributed Wednesday.

The appointments are part of Tulk's efforts to restructure the directorate, a plan she unveiled earlier this year.

Hardcastle is currently the manager of Compensation, Benefits and Occupational Health at the Jet Propulsion Laboratory in Pasadena. She has extensive expertise in the areas of pay program design, retention strategies, employee communications, and work/life programs. She has had approximately 15 years experience within the UC system, including Lawrence Berkeley and Lawrence Livermore national laboratories. From November 1992 until January 1995, she was the manager for compensation and benefits at the Superconducting Super Collider in Dallas. She holds a bachelor's degree in English from Cal State Fullerton, 1971.

"I believe that Kathleen will be a tremendous asset to the Laboratory, and I look forward to her being a member of the Administration and Human Resources Directorate management team," said Tulk.

"I am looking forward to returning to the Laboratory," said Hardcastle. "The employees have a commitment and passion about their work."

Hardcastle has been spending time familiarizing herself with the recommendations and issues identified by the recent Employee Survey and subsequent Survey Action Teams.

"The SATs show there is work to be done. The Lab's human resources' needs will be compelling in the next decade. I look forward to the challenges ahead."

Wong has 25 years' experience in human

Sir Arthur C. Clarke joins Lab futures odyssey

By Don Johnston

NEWSLINE STAFF WRITER

Even the keen scientific mind and fertile imagination of Sir Arthur C. Clarke has difficulty keeping pace with rapid developments in science and technology.

Reflecting on the current state of space travel relative to what he had imagined in his 1968 novel and motion picture screenplay, "2001 A Space Odyssey," Sir Arthur said, "In some ways our space

progress is disappointing.

"But in other ways far more has happened than I would have imagined in my lifetime," he said, noting unmanned surveys of Mars, Saturn, Jupiter and Neptune exceeded his expectations.

"I feel very satisfied," Sir Arthur said. "But, I understand the feelings of younger people who think they should be going up to the space station or going to Mars."

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New Lab security refresher briefing now available via Web or print

It's time for employees to take the annual LLNL Security Refresher Briefing. The Security Refresher Briefing is now available on the Safeguards & Security Program Website at <http://www-r.llnl.gov/securityprogram/index.html>, or type in the short cut: security.

This year the Safeguards & Security Department has developed a separate Security Refresher Briefing exclusively



for unclassified employees, in addition to the standard briefing. Part of an Integrated Safeguards and Security Management (ISSM) initiative, this briefing will offer training more appropriate for personnel working in an unclassified environment. Both briefings are on the Web. Employees should choose the one appropriate for their clearance status (cleared

or unclassified).

Both briefings are also available in a printable format. Those employees using a printed copy of the briefing to complete this requirement must complete the test and submit the verification form to the Safeguards & Security Department. Employees are encouraged to complete the briefing and test online to ensure the most accurate reporting of completion

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Illuminating HOME visit

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Getting on course

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LAB COMMUNITY NEWS

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Friday
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The Compensation Division will host an employee informational meeting at noon today in the Bldg. 543 auditorium. The presentation, **"Developing Our Salary Program: An Overview,"** will cover such topics as the Lab salary policy and components of the Compensation Increase Plan that is submitted annually to DOE and UC. All employees are invited.

Saturday
5

There will be a **scheduled power outage** from 6 a.m. Saturday to 3 p.m. Sunday in the following locations: Bldg. 261 (which will have partial power); and Trailers 2632, 2685 and 2687. Contact: Mark Cardoza, 3-0490.

Tuesday
8

A noontime **parenting class**, facilitated by parenting educator Ruth Gasten, will be held at noon in Bldg. 571, room 2000. The class is free and open to anyone who works on-site. For more information, see the Web at http://www-r.llnl.gov/OCM/parent/parenting_home.html

Wednesday
9

A representative from **Fidelity Investments** will be on-site to meet with employees on Wednesday and Thursday, and Oct. 15-16. Fidelity Investments are available to UC's 403(b) participants in addition to the UC-managed investment funds. To make an appointment, call Fidelity at 1-800-642-7131 and be sure to specify you are an LLNL employee.



"Heart Attacks: The Myths & the Truth" will be presented at noon Wednesday, Oct. 16, in the Bldg. 123 auditorium. A panel of two doctors, a nurse practitioner, a fitness and nutrition expert, and two survivors of heart disease, will give a presentation and answer questions. All Lab employees and contract workers are invited to attend and bring family members. Arrange for family badges through your LLNL offices. Contact: Marnette Yeager, 2-1217.

The Employee and Organization Development Division has openings in the following course: **"Making Projects Work — Techniques Plus People"** (ED7039). The course will be offered Oct. 14-15 from 8:30 a.m. to 4:30 p.m. in the Training Center. Cost is \$280-\$505, depending on the number enrolled. To register online, go to https://www-ais.llnl.gov/llnl_only/docs/hr/train/ Contact: EODD, 2-4842.

B Division's fall book sale will return Nov. 4-8. Used books, videos, CDs and books-on-tape are needed; all proceeds are used to buy Christmas gifts for needy children. A collection box is available in the lobby of Bldg. 132, in Health Services, and in Bldg. 253, room 1531. Contact: Lynn Groves, 2-1684.

Quilts of remembrance



JULIE KORHUMMEL/NEWSLINE

Lab employees David and Lorraine Crawford take a closer look at one of the "Pentagon Quilts" on display earlier this week at the Lab. The LLESA Piecemakers Networking Group arranged for the traveling collection of nearly 50 quilts to be displayed at the Lab. The quilts were sent to the Pentagon from around the world following the September 11 attacks.

RETIREES' CORNER

By Bob Becker

LLNL RETIREE

The Lab's 50th anniversary was an excellent opportunity for many retirees to see and reminisce with old friends and associates.

The panel on Monday, Sept. 16, with **Charlie Blue** (Procurement), **Jim Hadley** (Physicist), **Chuck Hurley** (Engineering), **Cecilia Larsen** (Computation), **Louis (Fuzzy) Wouters** (Test), **Chuck Leith** (Computation) and **Duane Sewell** (associate director) was entertaining and informative. We even learned how Louis Wouters got the nickname Fuzzy. He was named after a colleague's dog who disappeared just before Wouters came to the Lab.

Retirees came from all over the country. I won't try to list all the retirees that I saw. Former Director **John Foster** was there with his wife from Southern California. **Stirling Colgate** attended some of the activities. A few of the retirees I had a chance to talk to included Blue, **Max Biggs** (Medical), **Roland Walsted** (Test), **Gene Pons** (Procurement), **Al Pickford** (Engineering), **Hank Otsuki** (Chemistry), **Gus Dorough** (Chemistry), **Ed Lafranchi** (Engineering) and **Art Hudgins** wife, Dorothy.

I think that most of the people attending had a good time and could not get over all the changes that had taken place since they retired. Let me know if you were there and which retirees you may have encountered (and what they may be doing).

Many of the people were complimentary about this column and I reflected that it can only be as good as the news that I get from retirees. Let me know what is going on in your life. Write: Bob Becker, 1690 Frederick Michael Way, Livermore, CA 94550 or 925-447-3867, rcbecker@aol.com.

I apologize for the very few articles that I have written this year, but promise to do better if you let me know what you are doing.

Before I forget, I received two calls and an e-mail last week from relatives of retirees who wanted names removed from the *Newsline* list. I'm not the one who should be contacted. I was able to find out that the list is maintained by Barry Harward of Mail Services: 925-423-0195, L-88, Mail Room P.O. Box 808, Livermore, CA, 94551. This list has nothing to do with benefits or the Retirees' Association.

Alice Schwarber (Travel) and her daughter recently took a trip to Cuba. They were on their own and had a wonderful time. They took a horse-and-buggy trip of old Havana and the forts that protected Havana Harbor.

The retirees' dinner dance is being held on Oct. 11. The notices went out late. Contact: Pauline Floyd, 925-449-8594.

Bob Armstrong, C&MS welding engineer and secretary of the LLNL Retirees' Association, was elected to the board of directors of the Patrol Craft Sailors Association at the annual reunion in Reno this year. Bob was chief engineer of the PGM-13, a patrol gunboat built on a patrol craft hull that was designed for Japanese barge destruction. The craft was engaged in air-sea rescue of B-29 runways, at Saipan and then in destroying minefields around Japan.

Hartly and Lois Halunen (Procurement and Hazards Control) celebrated their 50th anniversary. They took the inaugural cruise on the *Star Princess*. Hartly and Lois met at a high school dance in 1952 and were married in Virginia, Minn.

Barbara Hill is still actively volunteering to manage the LLNL blood drive; if you are interested in donating blood or otherwise helping with the drive, please contact her at 925-447-3033.

Newsline

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1952 – 2002 MAKING HISTORY, MAKING A DIFFERENCE



This is an ongoing feature highlighting the Lab's 50-year history. This week we take a look at the years 1989 and 1990.

Exploring the future of scientific computing

In October 1989, the Laboratory Directed Research and Development office funded an ambitious new initiative that cut across Laboratory directorates and helped redefine high-performance computing as massively parallel computing.

This three-year Massively Parallel Computing Initiative (MPCI) — and comparable efforts at Los Alamos and Sandia — paved the way for the Stockpile Stewardship Program's Accelerated Strategic Computing Initiative (ASCI). It explored the relevance to Laboratory computer applications of then-accelerating trends in commercial microprocessors. Advances in very large-scale integration had increased both computer chip speed and reliability so much that massive, coordinated clusters of microprocessors were sometimes rivaling the performance of custom-designed supercomputers.

In 1990, the MPCI project acquired the Laboratory's first substantial, onsite massively parallel resource, a 64-node BBN-ACI TC-2000 machine that was upgraded to a full 128-node configuration a year later. Scientists from across the Laboratory probed the software development challenges of effectively using this new architecture by running a variety of computer problems on the MPCI machine. By 1992, early results were already available in such diverse areas as particle-physics event simulation, multidimensional numerical analysis, parallel graphics rendering algorithms and sedimentation modeling.

1989

MPCI

CAMS

1990



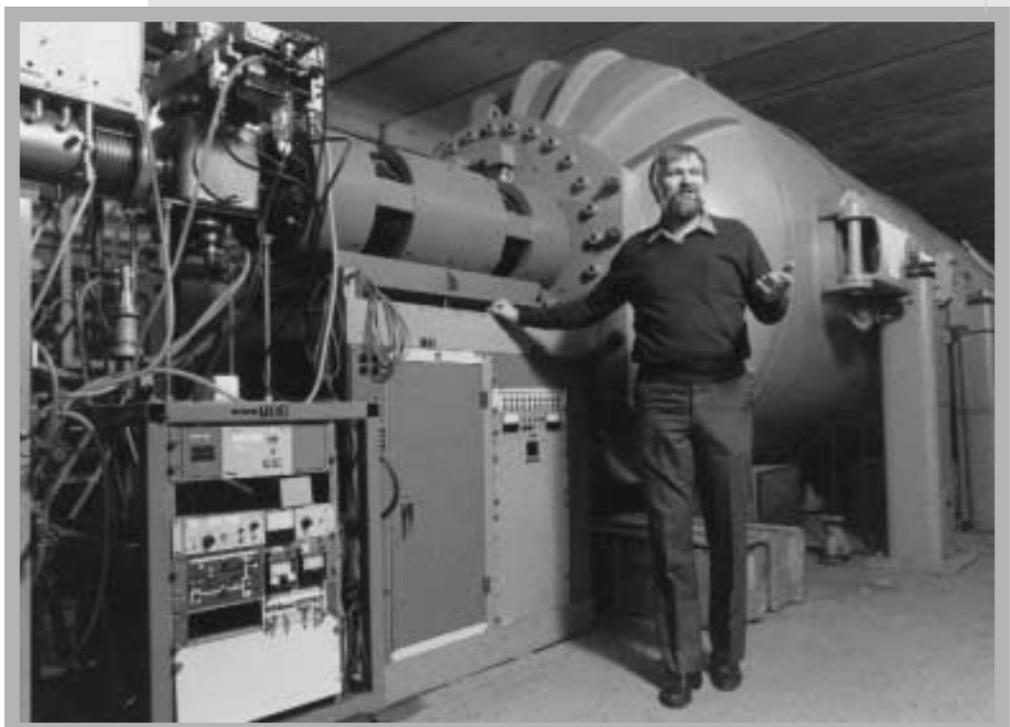
As shown by Eugene Brooks, the BBN-ACI TC-2000 had a multi-processing architecture that allowed individual processors to be partitioned into clusters and dynamically reallocated.

The ability to detect one in a quadrillion

In 1990, soon after the Center for Accelerator Mass Spectrometry (CAMS) started operations, the first biomedical experiment using AMS was performed at Livermore. It measured the effects on rat DNA of a suspected carcinogen that results from cooking meat. Right from the beginning, CAMS was proving to be a very versatile research facility, contributing to the success of a wide range of Laboratory programs and the research projects of many external users.

The need for a multi-user AMS capability was recognized by Jay Davis, and he "sold shares" in the new accelerator facility to programs throughout the Laboratory and to the University of California as a multi-campus users facility. CAMS was unique from the start because of the use of high-quality beam optics, and a computer-control system that allows large numbers of high-precision measurements to be taken.

Today, CAMS analyzes some 30,000 research samples annually — accounting for approximately one quarter of the worldwide AMS analyses performed per year. The center's scientists are participants in approximately 70 collaborative research projects with universities worldwide.



Standing next to the Center for Accelerator Mass Spectrometry's tandem electrostatic Van de Graaff accelerator, Jay Davis explains the Center's operations and the many applications of AMS.



NEWS YOU CAN USE

Free flu vaccines coming to Lab in mid-November

Flu shots are not scheduled to arrive at the Lab until mid-November, but the good news is the vaccines will be given to employees free of charge.

The vaccine will be offered to high-risk employees first. After that, the clinics will be offered to any Lab employee.

High-risk categories include people who are 65 and older; individuals with chronic medical conditions, such as cardiovascular or pulmonary disease, diabetes or renal dysfunction; pregnant women in their second or third trimester; and employees over 50 who are on Lab foreign travel.

Health Services expects to receive 2,500 doses this year, said Carol Turner, clinical operations manager. The vaccine will be distributed in clinics located in non-restricted areas so that all employees will have equal opportunity to receive a flu vaccine, she added.

Health Services is able to offer the vaccine free this year by limiting the number of site clinics, controlling the staffing costs necessary to deliver the vaccine, and by removing the accounting costs of collecting the fee.

Once the delivery date is confirmed, Health Services will announce the clinic dates and times in *Newsline* and *NewsOnline*.

APPOINTMENTS

Continued from page 1

resources and has demonstrated his leadership and programmatic abilities. "He is well recognized for his innovative approach to problem solving," Tulk said.

Wong graduated from UC Berkeley with a bachelor's degree in psychology. He earned a master's in human resources and organization development in 1985 from the University of San Francisco.

Wong joined the Laboratory in 1979 as an employment representative and has accepted increasingly responsible assignments as a recruitment manager, group leader and division leader within Human Resources. In June 2002, he became acting department head for Staffing and Employee Development. He has played a pivotal role in the restructuring of the human resources organizations within the directorate.

Tulk said Wong's continued collaboration with the Compensation, Bene-



fits, and Worklife Programs Department will be critical to hiring and retaining a world-class workforce in the 21st century for the Laboratory.

"I am looking forward to collaborating with Kathleen to create a new vision and strategy for the delivery of human resource services," said Wong. "By

partnering with Laboratory directorates and programs, we can create a work environment that will attract and retain a high-performing, diverse workforce."

Tulk also thanked Pat Clelland for his willingness to serve as acting department head of Compensation, Benefits and Worklife Programs during the restructuring and transition of the Administration and Human Resources Directorate. Clelland will continue in his acting role until Hardcastle begins her assignment in January. He will also have a key role in the organization, working closely with Hardcastle to strategically align the organization with the needs of the directorate and the Laboratory.

Technical Meeting Calendar

Friday
4

PHYSICS & ADVANCED TECHNOLOGIES

"A TEXES Travelogue: High-Spectral Resolution Astronomy in the Mid-Infrared," by Matt

Richter, UC Davis. Noon, Bldg. 319, room 205 (uncleared area). Contacts: Michael Gregg, 3-8946, or Sandra Maldonado, 3-0621.

Monday
7

ELECTRONICS ENGINEERING

"Robots on the Network," by David Law (interview candidate). 9:30 a.m., Bldg. 141, room 1104 (uncleared area).

Contact: Steve Azevedo, 2-8538.

Tuesday
8

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"Learning to Classify Galaxy Shapes Using the EM Algorithm," by Sergey Kirshner,

UC Irvine. 2:30 pm, Bldg. 219, room 163 (uncleared area). Contacts: Erick Cantu-Paz (CASC) 4-2467, or Leslie Bills, 3-8927.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"Probabilistic Model-based Clustering of Sets of Curves Using Regression Mixtures," by Scott Gaffney, UC Irvine. 2 p.m., Bldg. 219, room 163 (uncleared area). Contacts: Erick Cantu-Paz (CASC) 4-2467, or Leslie Bills, 3-8927.

Wednesday
9

CHEMISTRY & MATERIALS SCIENCE

Michael L. Klein, University of Pennsylvania, will discuss recent

efforts to use computer simulation methodologies to study self-assembling biomolecular systems. 3:30 p.m., Bldg. 235, room 1090 (uncleared area). Contact: Lisa Rose-McConville, 2-5609.

A DIVISION

"Numerical Study of Pair Creation by Ultra-intense Lasers," by Kenichi Nakashima, General Atomics. 10 a.m., Bldg. 123, conference room A (uncleared area). Contact: Melissa Odom, 46324.

Monday
14

MECHANICAL ENGINEERING

"Optics Research at the University of Alabama in Huntsville," by John Dimmock, Center for Applied Optics. 10 a.m., Bldg. 481 auditorium (uncleared area). Contact: Janice Lawson, 3-2075.

Thursday
17

CHEMISTRY & MATERIALS SCIENCE

"The Radiobiology of Nuclear Terrorism," by John E. Moulder, 10 a.m., Bldg. 151, conference room 1209.

Contacts: Christine Hartmann-Siantar, 2-4619, or Bonnie McGurn, 3-2764.

H DIVISION

"Atomic Force Microscope Lithography on Organic Resists," by Haiwon Lee Hanyang University. 10:30

a.m., Bldg. 319, room 205 (uncleared area). Contacts: Choong-Shik Yoo, 2-5848, Donna Vercelli, 2-0976.

Friday
18

INTEGRATED COMPUTING & COMMUNICATIONS

"Performance of the ALE3D Code on IBM Systems," by Ping Wang, Lawrence Berkeley

National Laboratory. 9 a.m., Bldg. 451, room 1025 (uncleared area). Contact: Terry Jones, 3-9834.

PHYSICS & ADVANCED TECHNOLOGIES

"The Three-Dimensional Atom Probe: Materials Characterization on the Atomic Scale," by George Smith, Oxford University. 1:30 p.m., Bldg. 235, room 1090 (uncleared area). Contacts: Robert Rudd, 2-4292, Donna Vercelli, 2-0976.

Friday
25

MATERIALS SCIENCE & TECHNOLOGY

"Selective Ligation Methods for the Ordered Attachment of Proteins to Surfaces," by Julio A.

Camarero, Biosecurity Support Laboratory. 3:30 p.m., Bldg. 235, Gold Room. Contact: Rebecca Browning, 2-5500.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

NEWS OF NOTE



Lab Kaleidoscope visit lights the way HOME

By Alane Alcorn

TID

Now in its 28th year, the Lab's annual campaign for Helping Others More Effectively, or HOME, provides a convenient way for employees and contractors to support local nonprofit agencies and umbrella organizations such as the United Way and the Tri-Valley Community Foundation.

HOME 2002 breaks from the starting blocks on Thursday, Oct. 31, with the annual Run for HOME and the concurrent HOME Agency Fair to be held in the parking lots near the West Cafe.

Donors can use the streamlined HOME process to arrange monthly payroll deductions or make a one-time donation

to favorite community or national causes. In each campaign of the past eight years, donations have steadily increased. Since 1998, annual donations have topped \$1 million, and the ambitious goal for this year's campaign is \$1.4 million.

One unique local agency benefited by HOME contributors is Easter Seals Kaleidoscope in Dublin. Campaign 2002 committee members concluded this year's round of site visits with a stop at Kaleidoscope on Sept. 25, and they enjoyed meeting many program clients. Kaleidoscope



CRAIG ISSOD/EASTER SEALS KALEIDOSCOPE

HOME Campaign committee members concluded this year's site visits with a stop at Easter Seals Kaleidoscope. Pictured with many of the program's young clients are (Lab employees, left to right) Ember Foley, Leslie Lisle, Ted Michels, Gerri Braswell and Becky Frank.

serves children and young adults (5 to 22 years of age) with developmental disabilities.

The 50 Tri-Valley youth in the program (20 reside in Livermore) receive more than 37,000 hours of service each year. Activities range from social and recreational events to independent-living training, behavioral coaching and family strengthening. Continued support from HOME contributions helps provide an environment in which these young people can feel safe and accepted, and where mentors can motivate and inspire

the youngsters to build satisfying and productive lives.

Kaleidoscope offers more than safe daycare, recreation, and preparation for independence in a structured setting. The program also helps its young clients learn to interact with others, and affords caregiving family members worry-free time to handle work, home or other obligations.

Craig Issod, Easter Seals Kaleidoscope vice president, notes that although the corporate office is located in Oakland, all HOME donations benefit the program in Dublin. HOME donations will serve the Tri-Valley by supporting after-school programs that serve local residents. Kaleidoscope will staff an information booth at the fair, so pick up a CD to learn more about this program from those who know it best.

HOME Campaign 2002 packets will be distributed to LLNL and Johnson Control employees throughout the week of the Run and Fair. This Labwide effort is being led by a platoon of volunteer organization team leaders (OTLs) and representatives in each directorate. You can expect a visit from your HOME Rep by Nov. 5. Your OTL and rep will be able to answer specific questions regarding the HOME campaign.

For more information, check the Web at: www-r.llnl.gov/home2002

Festive Run for HOME to launch 2002 campaign for local charities

By Mike Hodsdon

TID

Since it began in 1975, the Laboratory's HOME Campaign has been "Helping Others More Effectively" in the Tri-Valley area and beyond. The Run for HOME has become an annual tradition for kicking off one of the Tri-Valley's largest charity campaigns.

The Run for Home is a 3K race featuring costumes, food, entertainment and the annual HOME fair to showcase various charities. This year, LLNL's Laboratory Services Directorate will sponsor the race on Thursday, Oct. 31.

The Run for HOME has become one of the valley's most profitable annual charity drives. For the past 27 years, the HOME Campaign has had a tremendous impact on local nonprofit agencies as well as umbrella groups such as the United Way and the Tri-Valley Community Fund. Last year alone, Laboratory contributions to the campaign exceeded \$1.3 million. This year, HOME Chairperson Ted Michels has set a goal of \$1.4 million.

Local agencies such as Tri-Valley Haven for Women, Shepherd's Gate, Easter Seals Kaleidoscope, and Tri-Valley Animal Rescue look to the campaign for a substantial amount of their annual operating funds. The campaign supports a wide cross section of charities to which employees can give donations.

With the large population of contributors that the HOME Campaign attracts, employees know their contributions will be part of an effort having a significant impact on the community.

As always, employees will receive a packet of specific information from their organizational team leaders. In the upcoming weeks, more HOME Campaign information will be available in *Newsline* and *NewsOnLine*.

Where and when

The race will start at noon on West Perimeter Drive just outside parking lot Z-3, near Bldg. 132. The route will proceed past Bldg. 132 to Mesquite Way where it turns left toward Vasco Road. Participants will go south on Vasco to East Avenue, where they will finally enter the Lab's southwest entrance for a finish near the starting line. HOME Run details and a map are available on the Web at: <http://cmg-rr.llnl.gov/home2002/>

Participants and volunteers will receive free snacks and colorful Run for Home T-shirts. At the finish line, everyone will be treated to music, food, drinks and displays of the various charities that benefit from the HOME Campaign.

The theme for this year's run and fair is "Super Heroes," so dig out those Spiderman, Mighty Mouse, and Wonder Woman costumes. Costumes representing real-life super heroes such as firemen and policemen are also encouraged.

Magic Moments, a local band specializing in music from the 1950s, will provide entertainment. Costume judging will start shortly before noon and will end promptly at 12:40 p.m.

Who can participate

All members of the Laboratory community are eligible. In the past years, the run and fair have wel-



comed creatures such as centipedes, Star Warriors, giant insects, cartoon characters, hula hoopers and a variety of otherwise inanimate objects to join in the fun. Costumes will be judged, with prizes going to the winners in the following categories: "most humorous," "most colorful," "most creative" and "most heroic."

What happens

Rollerbladers will start at noon, followed by runners at 12:02 p.m., and then walkers. Athletes can also "Swim for HOME": Aquanauts will be timed at 800 meters in the Lab pool starting at 11 a.m. Runners at Site 300 will begin their usual 3,000-meter course at noon and will have their own awards ceremony following the event. Prizes

will be awarded to the race winners in several categories, including "master's" competitors.

What else

In parking lot Z-1 (near the southwest laboratory entrance) the HOME Fair tent will feature booths representing about 130 agencies available for employee contributions through this year's campaign. Food and water, T-shirts for sale, lunch tables, the band stage, and agency parking will be located in this area as well.

To keep the race course and staging area (in lot Z-1) free for this event, employees are being asked to park in other areas on Oct. 30 (for setup) and Oct. 31. Details about available parking will appear in both *Newsline* and *NewsOnLine* in late October. Mail Services will also distribute parking flyers to residents of buildings near lot Z-1, reminding them of the parking restrictions for those days.



CLASSIFIED ADS

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

2001 - Honda Accord LX, AT, AC, PW, PD, CD, 4-door, excel. cond., \$15,500 obo 925-753-0155

1985 - Honda Civic Wagon, 165K miles. Runs good. \$1200, negotiable. 510-885-8923

1995 - Mercury Villager GS. Looks Good, Runs Great. 108K, Green, \$5600. OBO. 925-462-3248

1964 - Triumph TR4, wire wheels, new tires, light blue. All there, needs restoration. Call for details. \$3,000 925-634-6273

1991 - Corvette hatchback coupe. Color white Automatic trans 70K miles Excellent condition. Lo Jack 925-833-7199

1996 - Ford Escort 2 Dr LX Hatchback, manual, clean, 75K miles, 6 CD player/tape, air, PS/PB, \$3393 OBO 925-245-9904

1995 - SATURN. 5-speed, leather, loaded, excellent condition. 108K miles. \$3,900. 925-443-7499

1996 - Jetta GLS 82,000 miles excellent condition. 5-speed, AC, 5-disk CD, moonroof, new timing belt. \$6800.00 925-606-6432

1991 - BUICK PARK AVENUE 4D, Power everything, low miles 65K, maroon color, in great condition. \$3500 or BO. 510-538-8732

1990 - 300ZX newer body style, dark grey, 5-speed tranny, Non-turbo, T-top, runs good, handles great. \$4000 209-824-7750

2001 - 2001 Saturn SC2 3-door. White ext./gray int. Excellent condition, 33K mi., all the extras, ppd maint. \$12,500 925-485-1988

2001 - fully loaded V6 KIA Optima, Garage Kept, 9000 Miles - Take Over Payments. 209-892-2369

1989 - Dodge Grand Caravan, 1 owner, 71kmi on new V6 engine, newly rebuilt AT, repainted, PS/AC/Cruise/FM/cassette, extra clean, \$2700 925-443-1074

1983 - Lincoln Town Car. Garaged, one owner and well maintained. Milage 140K. \$1500.00 209-892-3626

1990 - Acura Legend LS, 4dr, one owner, excellent condition, loaded, 125K, all scheduled maintenance. \$5000 OBO 925-846-3887

1993 - Pontiac Bonneville SE, 3.8L, AT, PS, PW, CC, PDL, New GM transmission, New Struts & Tires. Black/Tan interior. 176,000 Hiway miles. \$2500 obo 925-455-8006

1995 - Supercharged Buick Riviera. Black with tan leather. Power, windows, seats, mirrors, sunroof. CD, Cassete, 147k miles \$4200, (\$850 below bluebook) 510-535-2134

1990 - Honda Accord, 4 door, gray, 130K miles, good condition, 4K \$ 925-426-1255

1989 - BMW 525i Sedan black super clean, leather, 186K Miles \$6000 OBO 510-207-7696

1972 - Mercedes 280 SE, perfect dark green exterior, original blue interior. Runs. Single owner. 925-673-0521

2000 - DODGE NEON ES - 4cyl, auto, AC, PS, PB, , cruise, tilt, alarm, moonroof, stereo, CD, alloys, Warranty to 75K, 36,734 miles, \$8,000, 925-366-3821

1990 - Pontiac Firebird. V6. PS, PB, PW, Air, New Brakes. 146K. Runs Good. \$2900 925-455-9049

AUTOMOBILE ACCESSORIES

4 Wheels for BMW From 1993 325is factory sport package basketweave

style, cast aluminum 7X15 ET46, 5 lug 100mm pattern \$125 510-653-1017

Motor& Trans B.B.C 454 12.10 550+hp, 4200 stall, manual valve body, less than 100 miles on both, hear run. \$4200 or bo 209-522-4983

BICYCLES

Bianchi Veloce, Campy Triple. Steel frame Red/Yellow. Like new \$950 / B.O. 925-634-6273

BOATS

1974 18 foot Tahiti Hull equipped with (low nautical miles) 150 HP Mercury outboard. \$2,500 925-447-6977

2001 Seaswirl Striper, 21 feet, 5.0L Volvo, 150 hours, Fish Lockers, bait wells, galley, toilet, deck wash, trim tabs, weather enclosures, \$21,600 925-829-3226

Two! 1997 SeaDoos/Personal Watercraft w/trailer -- two/three seater. Great condition. Low hours! Must See! \$10,000 o.b.o. 925-980-0923

95 Kawasaki 900 ZXI jet ski, shore-lander trailer, cover, many extras, less than 3000 hrs, \$3500. OBO 209-551-4309

ELECTRONIC EQUIPMENT

Two Sprint PCS dual-band PCS flip-top phones (SCH-3500) \$25/each. 510-653-1017

Amateur Radio Antenna - Gap Titan DX, BO; 10 foot Satellite Dish System including electronics everything works BO 209-823-1859

New 3com cable model \$75; HP Pentium PC with HP monitor \$250 925-292-7799

Texas Instruments TI-83 calculator. Only used a few times for Statistics class. Bought new for \$100.00. Will sell for \$70.00/OBO. 510-305-4996

GIVEAWAY

Moving boxes, approximately 50. You pick up or will deliver to LLNL. 925-443-9052

Free single bed frame, head and foot boards, mattress and box springs, you haul 925-447-8236

HOUSEHOLD

Solid Oak dining table, 42x42 without leaf, 42x60 with leaf. 4 chairs, beautiful condition, \$525, 925-455-0836

Makita 10 inch miter saw. 4100 RPM. Runs great \$50. Old Dayton Speedaire Air Compressor. 3/4 HP. Still works. Small tank, 2 quick connects. \$25. 209-832-1054

Dryer-older, new heating element, \$65 Refrigerator, 3 yrs. new, orig. \$1250, will sell for \$375. 925-449-1061

Waterbed frame, King \$10 925-828-3295

maytag gas dryer, very good condition. \$100 209-599-6937

Play Structure, Sky Fort with multi-color top canopy, three swing set, yellow slide, solid wood construction, you haul, \$400 925-829-1794

Sectional sofa w/recliner & hide-a-bed. Good condition. \$400 OBO 925-443-3451

Yard Sale. 1771 Dawn Street, Livermore. Saturday 10/5, 9am to 2pm. Baby stuff, misc household items, remodeling leftovers. 925-371-1607

Select Comfort air bed. king size, dual chambers with frame. Every-

thing included. Excel. condition. \$175 or bo. 925-449-7570

Oak desks (2 available), school teachers type. 3ft dp x 5ft long x standard height. \$50 each. 209-835-6553

Honda HR194 rear bagger mower in very good condition. Recently serviced. Starts on first pull. \$200. 925-455-6884

Desk-Large executive desk. Oak, center tray, file cabinet drawers on left and right. Good condition. Moving, must sell. \$50.00 925-373-4888

LOST & FOUND

Found: Bifocal safety glasses in blue AO case. Retrieve at Bldg. 271, Room 1011. 925-447-8881

MISCELLANEOUS

Fireplace insert, large in home stereo speakers, Automobile cassette deck, topaz necklace and matching earrings. For more information call 209-835-2478

Patio Swing, with Canopy, 1yr old, exc cond. \$85. 925-778-4641

FIREWOOD: Pine- and hardwood; supply is limited; will deliver if necessary; call: 925-634-2307 925-634-2307

Hawaii bound? 2003 Entertainment book, used three times, plus 2002 Frommers Hawaiian guidebook all for \$35. 925-443-8889

Diamond 3/4 carat ring, must see, orig. \$1600, sell for \$850/offer. 925-449-1061

OAKLAND As post season tickets, front row, 2 seats, 1st deck, World Series & A. L. championship games 209-835-7149

Bridgeport Mill, digital readout, power-feed, angle lock vise, albright chuck, collets, 9x42 table & step-pully. \$3500 or bo 209-522-4983

Power saw dado blades, heavy duty scroll saw, sander. Offers considered. 925-292-7799

King-size captains (8 drawers) waterbed w/mirrored hutch/headboard, matching dresser w/mirror. \$300 OBO & much, much more! call for details. 925-443-3451

Winter coats, like new. Boys 2T, 3T, Girls 2T, \$10 each. Jackets, Boys 3T \$5, each. 925-454-0877

Radial Arm Saw made by DeWalt with a 9 inch carbide blade, dust box and stand. \$100 925-484-4099

YARD SALE Oct 4 and 5, 9am to 5pm, 2628 Kennedy St. Livermore, Nice things come see, Everyone Welcome. 925-447-6192

Beautiful gold diamond and opal ring. Never been worn! Must see! \$800 o.b.o. 925-980-0923

Cal Bears football tickets vs UCLA. Oct 19, 2002. Good seats, 3 tickets available. BO. 925-292-0348

Pro-Tech 13inch heavy duty drill press. Floor Model. Built 1988, 3/4 HP, 5/8inch chuck, 215-3250 RPM (16 speeds). Good condition \$150. 925-455-6884

Childrens playhouse. Tiny Tikes Country Cottage. Always indoors, as new. Yellow with blue roof. \$100. 925-426-0721

MUSIC INSTRUMENTS

Childs Suzuki violin with case, 1/4 size, excellent condition. Also Wolf shoulder rests for childs violin, 2 available. 925-292-7799

PETS & SUPPLIES

Wanted: large cage for small bird.

Must be in good condition. 925-706-2088

Pet pocket carrier for small dog, jean material. Straps on to your back. Used twice. Excellent condition. Paid \$60. \$25. 925-648-0671

Young fancy mice. Great pets. Very cute and smart. Free. 510-889-9026

Free Kittens, to good homes, 7 weeks, box trained 209-836-9548

RECREATION EQUIPMENT

Walking golf bag cart, Sun Mountain Speed Cart, brand new, still in plastic. \$125. 925-648-0671

Snow Boarding stuff For Sale: Santa Cruz board, Burton Boots & Bindings Step-in and strap type. All in good condition. Call for details 510-783-9923

Fisher-Price 3-in-1 Pool Table, Air Hockey & Ping Pong. Good Condition. \$20 925-846-8394

Pool Table Lamp: Cut bronze glass and brass; 6 bulb. Original price \$600. Sell at \$250. Livermore. 925-449-7646

1976 Winnebago Motor Home, Class A, 21FT, Dodge 318, Headers, Onan Generator, Hitch, Dual Gas Tanks, Dual Batteries. Runs Great! \$5995 209-836-3062

Like new Taylor-Made Golf Bag suitable for hand or motor cart. Rotating interior. Less than half price at \$30. 925-447-8753

Nordic Track, Nordic Stationary Bicycle and Stationary Bicycle \$50-\$200. 925-833-6061

Nordic Trak w/ book holder \$300 or b/o, rowing machine \$50, stationary bike \$75. Iv msg. 925-443-8789

Bell bicycle helmet, brand new unused, Youth size w/ foam inserts for fitting; \$15 aft-6pm 209-832-2056

RIDESHARING

Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/tsmp>

Modesto - 14 passenger, captain chairs. 7:45 AM - 4:30 PM schedule. \$111/mo - less with transit pre-tax program and/or help with driving. 209-521-9047, ext. 2-5177

SERVICES

TUTORING in high school and college chemistry and math. 925-443-2095

Heating and air conditioning service and installation. Certified installer, reasonable rates, free estimates. 925-828-6190

Home Daycare - Local and Licensed 925-449-1239

After school care for Arroyo Seco School kids! Lots of activities and fun! 1st grade and up. 925-373-6963

House Painting - Over 16 yrs experience. Call for free estimate. 209-956-3718

Horse Boarding-SAN RAMON, \$65.00 mth, you feed, you clean. Indoor stalls w/run, pasture available also. Call only if interested. 925-381-2359

SHARED HOUSING

Tracy - Furnished room and office. DSL and cable ready. Laundry and Kitchen priv. \$800/mo., util. incl. Call after 5pm 209-836-8954

Livermore - Furn/unfurn room available in 4 br home < 5 miles from lab. Non-smoker, full privs., \$600/month. Contact Jennifer

925-292-0126

Discovery Bay - Room for rent in a 3 bdrm, 2 bath house - clean, organized, non smoler. No pets! \$600 mo + 1/2 utilities & deposit 925-634-8523

Livermore, CA - 4 BD, Non-smoking, \$525 + dep & share util., avail. 11/1 925-960-1621

TRACY, - 2 Rooms available for rent. \$375/month, plus util. & deposit. New home full priviledges - Cable. Kitchen, Laundry etc.. (Lab Ex. 2-5783), 209-832-4335

livermore - Rm for rent. Rural area small & nice. Full laundry & kitchen privilages. Utilitis included. \$450 per mo. plus \$400 deposit. Call for more info. 925-371-5371

TRUCKS & TRAILERS

1991 - F150 - Clean, needs motor work. \$2000/obo 925-286-9452

2000 - Toyota Tacoma PreRunner, Xtracab. Silver w/ chrome wheels and wide tires. Upgraded CD player and speakers. Great Condition!! \$17,500/obo 925-413-2384

1991 - 91 Ford Ranger PU 4x4 XLT. 77K, good condition. \$4,500 or OBO. 925-373-6936

1994 - Ford Explorer Sport (2WD), 2 door, AT/AC/PW&PDL; cranberry red, excellent condition, new tires, brakes, battery, recent dealer service \$4500 OBO. 925-443-2880

VACATION RENTALS

Wanted: Beach house rental for Lab family (4 people) over Veterans Day weekend (Nov 9-11) 925-292-1976

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761

Maui, Wailea Ekahi, 1 bdrm/2ba, luxury condo, available 10/21-28, 12/5-12/13; Also large Arnold cabin - 510-582-9262

WANTED

One bedroom, one bath lake front trailer at Lake Berryessa. Trailer is fully furnished with new rattan furniture \$25K. 925-373-2882

\$10/night for your 91 Camary to be parked in my garage, in Lvmr, to help track sensitivity reactions to the garage or fuel system of my car. 925-321-2145

Babysitter for occasional evenings to watch two small children from ~7 to 10 p.m., Livermore. 925-449-7525

Railroad Ties, for lanscaping. 209-835-9082

Purebred Rottweiler pup wanted. Male or Female. Will pay \$200.00 209-470-1971

Reasonably priced, good condition baby items for young single mother. Forward facing Car seat, stroller, girls clothes 1 yr to 2 yrs. 510-489-9633

Looking for a 50cc motor scooter for basic transportation. If you have one that you want to sell, give me a call! 925-455-1766

2 Stanford football tickets for the game on November 16th Vs Oregon State. 209-835-6556

Looking for all wood chair (no casters) in good condition for student desk. 925-455-8006

Wanted: someone to play bluegrass fiddle at occasional lunchtime jams, and perhaps local gigs. 925-373-3146

NEWS OF NOTE



'Jamboree' to examine bacteria that ferment foods

By Charles Osolin

NEWSLINE STAFF WRITER

The next time you chow down on a sausage pizza, enjoy a refreshing frozen yogurt, or savor a fine wine, remember to thank the "bugs."

Lactic acid bacteria (bacteria that ferment sugars into lactic acid) play an essential role in the production of wine, as well as such fermented foods as cheese, yogurt, pickles, sausage and salami. From Oct. 7-11, about three dozen scientists from around the nation will gather at the Joint Genome Institute (JGI) in Walnut Creek to examine the genomes of nine of these economically and scientifically important "bugs," or microbes.

Analyzing the DNA of lactic acid bacteria can help food scientists enhance the preservation and safety of fermented foods, said JGI Director Eddy Rubin.

"Besides their importance in food production," Rubin said, "these 'probiotic,' or 'good' bacteria can be beneficial in other ways — contributing to the health and balance of the intestinal tract and helping fight illness and disease. Learning about the genetic makeup of probiotic bacteria can help in the prevention and treatment of a variety of gastrointestinal disorders."

The gathering is the second genome "jamboree" sponsored by the JGI this year. In April, about 50 scientists from Japan, Australia, Italy, France, Scotland and the United States met to study the genome of the sea squirt *Ciona intestinalis*, sequenced by the JGI last year. Later in October,



researchers will examine the genome of diatoms — microscopic ocean dwellers that could help combat global warming by capturing carbon dioxide near the ocean's surface and carrying it into deeper waters.

As part of the U.S. Department of Energy's Microbial Genome Program, the JGI has completed the sequencing of the genomes of the 11 lactic acid bacteria targeted by the Lactic Acid Bacteria Genome Consortium, a group of molecular scientists from a dozen U.S. universities. One of the bacteria, *Oenococcus oeni*, is especially important to wine growers because it contributes to flavor, aroma and texture, and can help retard spoilage and taint in some wines (see <http://www.lbl.gov/Science-Articles/Archive/JGI-wine-making-genome.html>).

David Mills, a food microbiologist and assistant professor of viticulture and enology at UC Davis, said the bacteria under study are used in the production of \$20 to \$30 billion worth of fermented products per year in the United States. "Looking at the genomes will aid in finding and exploiting those genetic traits that make a better cheese, wine, sausage, etc.," Mills said. "Conversely, we can learn more about those lactic acid bacteria that spoil products, to help identify them

earlier and perhaps prevent their growth and the resulting spoilage."

Mills said the jamboree could shed light on the common genetic mechanisms that enable the bacteria to use sugars, nitrogen and other substances in fermentation, as well as the genetic differences that allow them to live in "markedly different environments," such as milk, wine, beer, vegetables and the human gastrointestinal tract.

"We can compare the genetic plans and identify common gene sets that help us understand how they work so well in those environments," he said.

Along with the economic value of learning more about how the bacteria function, Mills said, the scientists hope to answer a number of open questions about how they evolved and where they fit on the evolutionary tree.

"To our knowledge, no one has ever sequenced such a large number of genetically related microbes before," Mills said. "This gives us an unprecedented opportunity to learn about genome evolution with a defined, related group — can we use genome information to understand how a small, related section of the tree of life evolved?"

The JGI, one of the largest and most productive public genome sequencing centers in the world, is operated jointly by Lawrence Livermore, Lawrence Berkeley and Los Alamos national laboratories. Additional information and progress reports on JGI projects, including daily updates of sequence information and assembly statistics, are available at www.jgi.doe.gov.



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It's the new
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Website

www-r.llnl.gov/sat/

Features include:

- SAT projects
- Projected timeline
- Contact names, numbers

For more information, contact
Tommy Smith, deputy associate
director for Strategic and Diversity
Initiatives, at 2-6634 or
smith80@llnl.gov.

Concrete proof



JULIE KORHUMMEL/NEWSLINE



With the help of a sophisticated laser screed machine, workers laid, vibrated and finished 530 cubic yards of concrete last Friday for the slab of the International Security Research Facility. The concrete work was accomplished within a tolerance of one-eighth of an inch, twice as precise as the normal one-quarter inch tolerance for building slabs. The use of the laser screed helped minimize the number of "cold joints" — where fresh concrete is joined to set concrete — for a stronger slab. In achieving its tight tolerances, the laser screed's receivers pick up a beam from the laser on the shear wall (shown in the inset photo). In turn, the beam's signal is fed to a microprocessor, which sets the machine. The International Security Research Facility project is on schedule, with the building shell due to be completed in December 2003.



THE BACK PAGE

CLARK

Continued from page 1

Not only did the novel and the movie, directed by Stanley Kubrick, shape notions of space travel for an entire generation, "it also influenced the U.S. space program," said Ron Lehman, director of the Center for Global Security Research (CGSR).

Sir Arthur was interviewed at his home in Colombo, Sri Lanka by Lehman and Patrick Mendis of the U.S. State Department for CGSR's 2002 futures conference looking at the forces likely to shape global security in the next 50 years. The title was, "Pioneering the Endless Frontier: Science and Technology for National Security in the Next 50 Years" (see the Sept. 27 edition of *Newsline*).

Over the last 50 years, Sir Arthur's writing — both fiction and non-fiction — anticipated technologies and scientific applications that are a reality today, including communication satellites, computers that speak, multimedia, the Internet, virtual reality, cloning and lasers.

While serving in the Royal Air Force in 1945, he wrote a technical paper for *Wireless World* describing the basic principles of satellite communication using satellites in geostationary orbits. The idea emerged from a group discussion about how to make money with rockets.

"One thing I didn't foresee was Global Positioning Systems (GPS)," he said.

In the decade following the 1969 landing on the moon "there was talk of a Mars project," but Sir Arthur surmised that the Cold War and events such as the Watergate scandal diverted attention from space exploration. "The momentum for a person flight was lost."

Today, the idea of common space travel via a "space elevator," such as that he has envisioned, is not limited as much by technology and costs as a question of what to do while traveling in space, he said. "A space elevator could be built and I think it will be built. But it's a chicken and egg problem. Until there's a place to go to, what's the point of building the access?"

Nonetheless, "I'm sure we'll find more reasons for exploring when we get there."

Sir Arthur also remains convinced it is only a matter of time before we discover proof of intelli-



From left: Ron Lehman, Sir Arthur C. Clarke and Patrick Mendis at Sir Arthur's home in Sri Lanka, where the interview was videotaped for the CGSR conference.

gent life in the universe, probably through optical techniques or radio contact. "I find it a bit disappointing that we haven't encountered anything yet that is of artificial origin.

"I think one day we'll find something that is undeniably artificial," Sir Arthur said, adding with typically British understatement, "Of course, the other possibility is that they're already here.

"I'd like to know who said that the best proof that there's intelligent life in the universe is that it hasn't come here," he quipped.

Sir Arthur says he's an optimist about the future, though he acknowledges that grappling with the complexities of science and technology will continue to be a challenge. Looking back over the last 50 years, "There have been some improvements in human society."

The declining cost of electronics is making technology increasingly accessible to more people around the world, he noted. "The digital divide is becoming rapidly bridged."

But rapid scientific and technological change may also be sparking a reaction, according to Sir Arthur. "Fundamentalism is rearing its ugly head, even in the United States, perhaps in reaction to science."

While much of Sir Arthur's life work has been based on looking into the future, he acknowledges that it is extremely difficult. "Looking 50 years ahead is near impossible," he said. "Scientific breakthroughs are by their very nature impossible

to predict.

"What would a Victorian lady have thought if you told her that her granddaughter would spend much of her life fondling a mouse," he said.

The idea of including Sir Arthur came out of the planning stage of the CGSR conference. "We realized that looking out 50 years is like science fiction," Lehman said. "We decided we needed creative minds and there was a consensus we should invite Sir Arthur."

But travel is difficult for Sir Arthur, who is largely confined to a wheelchair because of post-Polio syndrome. "He's still very vigorous," Lehman said, adding Sir Arthur has had contact with Livermore scientists over the years and is well aware of Laboratory work.

At one point in the videotaped interview, Sir Arthur good-naturedly complained the questions Lehman and Mendis asked "make me sound old. I'm only 85."

His attention is still very much drawn to the future and he has a particular interest in new energy sources such as "tapping quantum fluctuations in space" and new materials. "We're on the doorstep of the carbon age," Sir Arthur said. "With the discovery of carbon 60, there's the possibility of super strong materials made from one of the commonest elements."

A special telephone link was set up so Sir Arthur could participate in the conference's concluding roundtable discussion, led by former Defense Secretary William Perry. Unfortunately, Sir Arthur was able to hear the discussion but his response could not be broadcast in the Bldg. 123 auditorium because of a technical glitch.

He did, however, pass on comments to Lehman by phone during a discussion of future security threats, notably electromagnetic pulse (EMP) weapons designed to destroy electronic communication and storage systems. Noting that there'd been more than 20,000 hits on the Web search engine Google for "EMP," Sir Arthur asked, "Can you imagine living your life in a Faraday cage?"

In preparing for the interview, Lehman recalled a passage from Sir Arthur's science fiction classic "Childhood's End" that was appropriate to a futures conference enterprise: "Fifty years is ample time in which to change a world and its people almost beyond recognition."

Sir Arthur wrote those words in 1952, the year the Laboratory was founded.



Newsline
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REFRESHER

Continued from page 1

of the briefing. All LLNL employees and contractors must read the briefing and test no later than Dec. 13.

People who are exempt from this requirement are: visitors; off-site contractors without clearances; contractors whose clearances are held at other DOE facilities; and DOE employees. In addition, any employee who has taken the Initial Security Briefing (part of the New Employee Orientation) or the Comprehensive Briefing since Jan. 1 will not be required to complete the Security Refresher Briefing until one year from the date they last completed one of the two briefings. (Example: If you took the Comprehensive Briefing on Aug. 20, you will not have to complete the Security Refresher Briefing until Aug. 20, 2003.) If you've taken both the Initial Security Briefing and the Comprehensive Briefing since Jan. 1, your

Security Refresher Briefing will be due one year from the date you took the Comprehensive Briefing.

The DOE requirement is every employee will be responsible for completing the Security Refresher Briefing no later than one year from the date they complete the briefing this year. (Example: If you take the briefing on Nov. 8, you will need to take it again no later than Nov. 8, 2003.) You and your supervisor should receive LTRAIN notices of upcoming training, to include the Security Refresher Briefing, but each employee is ultimately responsible for completing the Security Refresher Briefing on time.

In order to take the quiz on the LLNL internal web testing system, you will need to enter your Institutional ID and password. If you do not have an Institutional ID and password, you can get one at https://www-ais.llnl.gov/llnl_only/docs/menu/

Questions regarding the Security Refresher Briefing requirements should be directed to Security Education, at 3-8284 or 3-3300.